



Illinois Department of Transportation

Memorandum

To: DIRECTORS, DEPUTY DIRECTORS, AND BUREAU CHIEFS
From: Dianna L. Taylor
Bureau Chief of Personnel Management
Subject: Technical Vacancy
Date: September 27, 2016

Attached are the Position Summary Sheet and Position Description for the vacant technical position listed below. Please post this vacancy announcement September 29, 2016 in the designated areas.

The deadline for applicants to submit their names for consideration is **4:30 p.m.** on **Thursday, October 13, 2016**. Applicants will not be accepted after that time and date.

NOTE: Please be advised that if a high volume of applications are received, the applications may be screened to establish a smaller pool of applicants for interview. The screening will be based on the information contained in the application.

All applicants will receive a position description for the position they are applying for. If you have any questions, please contact Jennifer Sunderland or Denise Hamilton at 217/782-5594.

TM IV (4 pos)

Senior .NET Developer
Bureau of Information Processing
Office of Finance and Administration
Springfield

Attachments
41256

Technical Applications (PM 1080 rev 9/19/16) **must be received** by the Bureau of Personnel Management, Room 113, 2300 South Dirksen Parkway, Springfield, IL 62764 (Fax# 217/557-3134) or emailed to DOT.CO.BPM.EmploymentApplications@Illinois.gov by **Thursday, October 13, 2016, 4:30 p.m.** Please include address, daytime phone and position for which applying if not already listed on application. Applicants will be notified in writing to schedule interviews.

NOTE: Please be advised that if a high volume of applications are received, the applications may be screened to establish a smaller pool of applicants for interview. The screening will be based on the information contained in the application.



Illinois Department of Transportation

An Equal Opportunity Employer

Position Summary Sheet

Classification: Technical Manager IV (4 POSITIONS)

Salary Range: \$5,015 - \$9,155

Position Title: Senior .NET Developer

Union Position: ☒ Yes ☐ No

Position Number: PW414 23-40-205-30-01

IPR#: 41256

Office/Central Bureau/District/Work Address:

Office of Finance and Administration/Bureau of Information Processing/2300 South Dirksen Parkway, Springfield, IL

Description Of Duties:

This position is responsible as a project lead developer and primary technical resource pertaining to the design development, maintenance and technical support of many of the department's multi-user, client/server, web-based technology applications. This position performs primarily as a programmer using C#, Microsoft .NET framework and Microsoft SQL databases as the primary technical focus.

Special Qualifications:

Required:

- Valid driver's license
- Limited travel to meetings and/or training sessions

Desired:

- Knowledge skill and mental development equivalent to completion of four years of college preferably with major courses in computer science or other IT related courses
- Five years of experience in application development using c#, .NET framework, MS SQL and web interfaces
- Background or general knowledge of Geographic Information Systems, and how they relate to the transportation industry
- Experience and general understanding of internet/intranet technology, NOMAD, MVS, JCL, TSO and SQL
- Experience working on development over \$500,000
- General understanding of Microsoft development technologies and object oriented programming (OOP)
- General understanding of PMI project management methodology

Shift/Remarks:

8:00 am – 4:30 pm / Monday - Friday

**ILLINOIS DEPARTMENT OF TRANSPORTATION
POSITION DESCRIPTION**

DATE:	August 11, 2016	POSITION:	Senior .NET Developer
APPROVED BY:	Dan Wilcox	OFFICE/DIVISION:	Finance & Administration
CODE:	PW414 23-40-205-30-01	REPORTS TO:	Distributed Systems Unit Manager

Position Purpose

This position is accountable for being a project lead developer and primary technical resource pertaining to the design development, maintenance and technical support of many of the Department's multi-user, client/server, web-based technology applications. This position performs primarily as a programmer using C#, Microsoft .NET framework and Microsoft SQL databases as the primary technical focus.

Dimensions

Number of New Development Projects:	10-15 Annually
Number of Distributed Systems:	100+
Technology User Base Supported:	5,600 +/-
Estimated Code Value:	\$125 million

Nature and Scope

This position reports to the Distributed systems manager. There are no subordinates to this position; however the position frequently functions as a lead developer to a project manager. This position functions in a matrix organizational structure where the incumbent will take directions from a project manager along with other developers and consultant resources as needed. This position may work independently on smaller projects.

Under the supervision of the Distributed Systems Manager, this position is accountable to analyze, develop, deliver and support high quality business software. The incumbent is responsible for evaluating the effects of changes requested to meet departmental needs; adhering to development standards and testing implemented changes on existing technology systems. This position also assists in specifying, designing and implementing new technology applications to increase the effectiveness of the Department's project management assets.

The greatest challenge of this position is to design, develop and implement technology applications that maximize the Department's technology resources and ensure timely and effective completion of assigned project objectives. To meet this challenge the incumbent must combine the complex and dynamic requirements of the Department with state-of-the-art technology and computer systems utilizing the Microsoft Visual Studio .NET suite, Microsoft SQL server databases and interfacing applications with Microsoft Office Suite or geographic information systems (GIS) Typical problems of this position relate to the incumbent's ability to effectively apply practical operational experience to the development of computerized solutions in response to computer users' needs.

This position applies new technologies and applications to meet the needs of the Department's computing community, the integration of those technologies and applications with the Department's existing resources, working with project managers, team members, end users and stakeholders to develop procedures and documentation to optimize the usage of new technologies and applications, and the resolution of problems encountered by end users.

The incumbent acts as a subject matter expert on technology disciplines and can be called to represent the Bureau in meetings with management as needed. S/He is accountable for participating in the analysis; testing and documenting of the necessary systems and maintenance/enhancements to existing database systems. S/He provides procedural assistance and training to the users of systems to ensure operational efficiency and serves as a mentor to other developer staff. On development projects, the incumbent works closely with other members of the Distributed Systems Unit and with users to analyze, design and implement technology applications and systems. Although, the incumbent may be assigned to work independently on smaller projects, s/he serves as lead to a project team in the development of applications.

This position has frequent contacts with other areas of the Department for the purpose of analyzing user needs and requests for maintenance of existing technology systems. Contacts outside of the Department would be with other developer communities and technical specialists from other state, local or federal agencies with similar functions or with vendors of Intranet-based application products and services. This position functions in a customer service role and is expected to provide a responsive and respectful relationship with project team members as well as end users. Limited travel to meetings and/or training sessions is required.

Under the supervision of the Distributed Systems Manager, this position has the freedom to act and resolve user problems. Only when an action affects the unit's or users' budget; project time constraints or affects Department standards or procedures must a matter be referred to the supervisor for resolution. S/He is constrained by departmental regulations.

The effectiveness of this position is measured by the continued operational effectiveness of existing technology systems and the providing of cost effective usage to optimize the Department's project management capabilities through new technology system development.

Principal Accountabilities

1. Develops new technology applications utilizing the .NET development framework and MS SQL databases.
2. Acts as a mentor to other development staff with less experience or knowledge of a specific technology function.
3. Enhances existing technology applications and databases to optimize the new features of the development environment and facilitate changing business needs.
4. Provides operational assistance in response to technology system malfunctions received from users throughout the Department.
5. Recommends training curriculum for new development end users.
6. Participates in the analysis of new project requests for new technology tools and aids in determining the feasibility of a recommended technology solution.
7. Tests and provides written documentation for new programs and technology applications.
8. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
9. Performs other duties as assigned.